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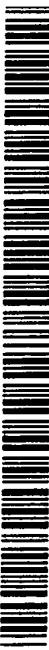
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**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



**WO 2004/041240 A1**

(54) Title: CONTROLLED AND CONTINUED DELIVERY OF RIFAXIMIN AND/OR OTHER SUBSTANCES

(57) Abstract: A gum-like device is designed for the controlled and continued delivery of rifaximin, without producing the usually intense red coloration, for the resolution of the infections and the reduction of the inflammation in the oral cavity and in the laryngo-pharyngeal one. The device also protects either the gum or the dental apparatus from acute infections, from the infiltration and the stagnation of the food, and fights chronic infections such as in the periodontal pockets. Moreover, the device can be used to protect the gum from the traumatizing collision that the food exercises during the mastication.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12346

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 A61K9/00 A61K31/437

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBASE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 547 294 A (ALFA WASSERMANN SPA) 23 June 1993 (1993-06-23) page 2, line 49 – line 53 page 2, line 57 –page 4, line 1 examples claims —	1-33
X	WO 96 40086 A (KANIOS DAVID P ;MANTELLE JUAN A (US); NOVEN PHARMA (US); GENTILE J) 19 December 1996 (1996-12-19) example page 29, line 24 claims — —/—	1-33

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

12 March 2004

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/12346

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 15210 A (HOUZE DAVID ; MANTELLE JUAN (US); KANIOS DAVID (US); NOVEN PHARMA () 1 April 1999 (1999-04-01) examples page 20, line 17 claims ----	1-33
X	FR 6 300 M (LEPETIT S.A.) 9 September 1968 (1968-09-09) the whole document ----	1-33
A	HOOVER WILLIAM W ET AL: "Antimicrobial activity and spectrum of rifaximin, a new topical rifamycin derivative" DIAGNOSTIC MICROBIOLOGY AND INFECTIOUS DISEASE, vol. 16, no. 2, 1993, pages 111-118, XP002067682 ISSN: 0732-8893 abstract page 117, right-hand column, last paragraph ----	1-33

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP 03/12346

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 9–24 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP 03/12346

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0547294	A 23-06-1993	IT AT CA DE DE DK EP ES GR JP JP KR MX US US	1253711 B 130510 T 2073601 A1 69206245 D1 69206245 T2 547294 T3 0547294 A1 2081531 T3 3018205 T3 2834951 B2 5255085 A 149519 B1 9204132 A1 6140355 A 5314904 A	23-08-1995 15-12-1995 18-06-1993 04-01-1996 02-05-1996 18-12-1995 23-06-1993 01-03-1996 29-02-1996 14-12-1998 05-10-1993 15-10-1998 01-08-1993 31-10-2000 24-05-1994
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FR 6300	M 09-09-1968	NONE		